

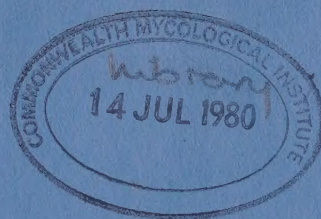
1979 Volume 58
Annual Indexes

ISSN 0034-6438



COMMONWEALTH AGRICULTURAL BUREAUX

Review of plant pathology



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Annual Subscription Rate

To subscribers in countries that are not members of CAB £110.00

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- Smirnov, K. S. 3404, 3453
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- Smirnova, K. 1965
- Smirnova, L. A. 1198
- Smirnova, T. A. 1961
- Smirnova, Z. G. 4045
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- Smolyar, V. A. 1386, 1961
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- Snaden, P. H. A. 2098
- Snell, B. 5940, 5941
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- Snieszko, J. T. 3089
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- Soderberg, S. A. 5182
- Sofa, H. S. 992, 2061, 2469, 4091, 4950
- Sofa, S. S. 5094
- Sofa, P. F. 1957
- Sofron, V. G. 4310
- Sofron, V. V. 1409
- Sofronova, E. S. 4051
- Sofronova, G. D. 3857
- Sofronova, L. 517
- Sofronova, L. A. 4481
- Sofronovskaya, I. V. 1965
- Sofa, Z. 1501, 1511, 4641, 5164
- Sofronova, L. D. 5114
- Sofronova, L. A. 1965
- Sofronov, R. M. 1
- Sofronov, P. P. 1961
- Sofronov, R. B. 4709
- Sofronovskaya, T. 1073, 1075, 1757, 1758
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- Sofronovskaya, T. 1694, 5174
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SUBJECT INDEX

The names of fungi and bacteria used in the Subject Index are kept in line with the International Codes of Botanical and Bacteriological Nomenclature and with current taxonomic opinion. Whenever the perfect state of a fungus is known and generally accepted the name applied to this state is used.

To facilitate entry into the index, a list of some commonly used synonyms and imperfect state names is given below in the left-hand column, with in the right-hand column the name used in the index.

For references to	See under	For references to	See under
<i>Alternaria tenuis</i>	<i>Alternaria alternata</i>	<i>F. sulphureum</i>	<i>G. cyanogena</i>
<i>Armillaria matsutake</i>	<i>Tricholoma matsutake</i>	<i>Fusicladium effusum</i>	<i>Cercospora effusa</i>
<i>A. mellea</i>	<i>Armillariella mellea</i>	<i>Ganoderma pseudosporium</i>	<i>Ganoderma philippii</i>
<i>Ascochyta chrysanthemi</i>	<i>Didymella chrysanthemi</i>	<i>Gloeosporium album</i>	<i>Pezicula alba</i>
<i>A. imperfecta</i>	<i>Phoma medicaginis</i>	<i>G. ampelophagum</i>	<i>Elsinoë ampelina</i>
<i>A. pinodes</i>	<i>Mycosphaerella pinodes</i>	<i>G. musarum</i>	<i>Colletotrichum musae</i>
<i>Bipolaris sorokiniana</i>	<i>Cochliobolus sativus</i>	<i>G. perennans</i>	<i>Pezicula malicorticis</i>
<i>Boletus luteus</i>	<i>Suillus luteus</i>	<i>Helminthosporium atrovirens</i>	<i>Helminthosporium solani</i>
<i>Botryotinia fuckeliana</i>	<i>Sclerotinia fuckeliana</i>	<i>H. bromi</i>	<i>Pyrenophora bromi</i>
<i>Botrytis gladiolorum</i>	<i>S. draytonii</i>	<i>H. carbonum</i>	<i>Pyrenophora carbonum</i>
<i>B. squamosa</i>	<i>S. squamosa</i>	<i>H. dictyoides</i>	<i>Pyrenophora dictyoides</i>
<i>Brunchorstia pinea</i>	<i>Gremmeniella abietina</i>	<i>H. gramineum</i>	<i>P. graminea</i>
<i>Calonectria nivalis</i>	<i>Micronectriella nivalis</i>	<i>H. incurvatum</i>	<i>Drechslera incurvata</i>
<i>Cephalosporium</i>	<i>Acremonium</i>	<i>H. maydis</i>	<i>Cochliobolus heterostrophus</i>
<i>Cephalosporium acremonium</i>	<i>Acremonium strictum</i>	<i>H. nodulosum</i>	<i>C. nodulosus</i>
<i>Cephalosporium gregatum</i>	<i>Phialophora gregata</i>	<i>H. oryzae</i>	<i>C. miyabeanus</i>
<i>Cercospora arachidicola</i>	<i>Mycosphaerella arachidis</i>	<i>H. rostratum</i>	<i>Setosphaeria rostrata</i>
<i>C. cruenta</i>	<i>M. cruenta</i>	<i>H. sacchari</i>	<i>D. sacchari</i>
<i>C. personata</i>	<i>M. berkeleyi</i>	<i>H. sativum</i>	<i>Cochliobolus sativus</i>
<i>Cercospora herpotrichoides</i>	<i>Pseudocercospora herpotrichoides</i>	<i>H. setariae</i>	<i>C. setariae</i>
<i>Cladosporium effusum</i>	<i>Cercospora effusa</i>	<i>H. siccans</i>	<i>Drechslera siccans</i>
<i>Cladosporium fulvum</i>	<i>Fulvia fulva</i>	<i>H. sigmoideum</i>	<i>Magnaporthe salvinii</i>
<i>Clasterosporium carpophilum</i>	<i>Stigmata carpophila</i>	<i>H. sorokinianum</i>	<i>Cochliobolus sativus</i>
<i>Clitocybe tabescens</i>	<i>Armillariella tabescens</i>	<i>H. tetramera</i>	<i>Drechslera tetramera</i>
<i>Coccomyces hiemalis</i>	<i>Blumeriella jaapii</i>	<i>H. tritici-repentis</i>	<i>Pyrenophora tritici-repentis</i>
<i>Colletotrichum atramentarium</i>	<i>Colletotrichum coccodes</i>	<i>H. turcicum</i>	<i>Setosphaeria turcica</i>
<i>C. coffeanum</i>	<i>Glomerella cingulata</i>	<i>H. vagans</i>	<i>Drechslera poae</i>
<i>C. falcatum</i>	<i>G. tucumanensis</i>	<i>H. victoriae</i>	<i>Cochliobolus victoriae</i>
<i>C. gloeosporioides</i>	<i>G. cingulata</i>	<i>Higginsia hiemalis</i>	<i>Blumeriella jaapii</i>
<i>Coniophora cerebella</i>	<i>Coniophora puteana</i>	<i>Hypoxylon pruinaum</i>	<i>Hypoxylon mammatum</i>
<i>Corticium solani</i>	<i>Thanatephorus cucumeris</i>	<i>Isariopsis griseola</i>	<i>Phaeoisariopsis griseola</i>
<i>Cryptosporella viticola</i>	<i>Phomopsis viticola</i>	<i>Leptosphaeria salvinii</i>	<i>Magnaporthe salvinii</i>
<i>Curvularia lunata</i>	<i>Cochliobolus lunatus</i>	<i>Macrophomina phaseoli</i>	<i>Macrophomina phaseolina</i>
<i>Cylindrocarpon destructans</i>	<i>Nectria radiculicola</i>	<i>Marasmius perniciosus</i>	<i>Crinipellis perniciosus</i>
<i>Cylindrosporium concentricum</i>	<i>Pyrenopeziza brassicae</i>	<i>Melampsora larici-tremulae</i>	<i>Melampsora populnea</i>
<i>Cytospora cincta</i>	<i>Valsa cincta</i>	<i>M. pinitorqua</i>	<i>M. populnea</i>
<i>Darluka filum</i>	<i>Eudarluka caricis</i>	<i>Merulius lacrymans</i>	<i>Serpula lacrimans</i>
<i>Didymella pinodes</i>	<i>Mycosphaerella pinodes</i>	<i>Monilia fructigena</i>	<i>Sclerotinia fructigena</i>
<i>Diplodia gossypina</i>	<i>Botryodiplodia theobromae</i>	<i>Monilinia fructicola</i>	<i>S. fructicola</i>
<i>D. theobromae</i>	<i>Botryodiplodia theobromae</i>	<i>M. fructigena</i>	<i>S. fructigena</i>
<i>D. zeae</i>	<i>Diplodia maydis</i>	<i>M. laxa</i>	<i>S. laxa</i>
<i>Dothidella ulei</i>	<i>Microcyclus ulei</i>	<i>Mycosphaerella citrullina</i>	<i>Didymella bryoniae</i>
<i>Dothistroma pini</i>	<i>Scirrhia pini</i>	<i>M. ligulicola</i>	<i>D. chrysanthemi</i>
<i>Drechslera erythrosipila</i>	<i>Pyrenophora erythrosipila</i>	<i>Neofabraea perennans</i>	<i>Pezicula malicorticis</i>
<i>Drechslera maydis</i>	<i>Cochliobolus heterostrophus</i>	<i>Neovossia barclayana</i>	<i>Tilletia barclayana</i>
<i>D. oryzae</i>	<i>C. miyabeanus</i>	<i>N. horrida</i>	<i>T. barclayana</i>
<i>D. teres</i>	<i>Pyrenophora teres</i>	<i>Nigrospora oryzae</i>	<i>Khuskia oryzae</i>
<i>Epicoccum nigrum</i>	<i>Epicoccum purpurascens</i>	<i>Oospora citri-aurantii</i>	<i>Geotrichum candidum</i> var. <i>citri-aurantii</i>
<i>Erwinia aroideae</i>	<i>Erwinia carotovora</i> var. <i>carotovora</i>	<i>Ophiobolus graminis</i>	<i>Gaeumannomyces graminis</i>
<i>E. atroseptica</i>	<i>E. carotovora</i> var. <i>atroseptica</i>	<i>Pectobacterium aroideae</i>	<i>Erwinia carotovora</i> var. <i>carotovora</i>
<i>Erysiphe polygoni</i> (on beet)	<i>Erysiphe betae</i>	<i>P. carotovorum</i>	<i>E. carotovora</i> var. <i>carotovora</i>
<i>Fomes annosus</i>	<i>Heterobasidium annosum</i>	<i>P. carotovorum</i> var. <i>atrosepticum</i>	<i>E. carotovora</i> var. <i>atroseptica</i>
<i>F. applanatus</i>	<i>Ganoderma applanatum</i>	<i>Pellicularia sasakii</i>	<i>Corticium sasakii</i>
<i>F. lignosus</i>	<i>Rigidoporus lignosus</i>	<i>Peridermium harknessii</i>	<i>Endocronartium harknessii</i>
<i>F. pinicola</i>	<i>Fomitopsis pinicola</i>	<i>Peronospora pisi</i>	<i>Peronospora viciae</i>
<i>Fusarium chlamydosporum</i>	<i>Fusarium fusarioides</i>	<i>Phoma betae</i>	<i>Pleospora betae</i>
<i>F. coeruleum</i>	<i>F. solani</i> var. <i>coeruleum</i>	<i>P. foveata</i>	<i>Phoma exigua</i>
<i>F. decemcellulare</i>	<i>Calonectria rigidiuscula</i>	<i>P. lingam</i>	<i>Leptosphaeria maculans</i>
<i>F. graminearum</i>	<i>Gibberella zeae</i>	<i>P. solanica</i>	<i>Phoma exigua</i>
<i>F. javanicum</i>	<i>Fusarium solani</i>	<i>P. tracheiphila</i>	<i>Deuterophoma tracheiphila</i>
<i>F. moniliforme</i>	<i>Gibberella fujikuroi</i>	<i>Phomopsis citri</i>	<i>Diaporthe citri</i>
<i>F. nivale</i>	<i>Micronectriella nivalis</i>	<i>P. mali</i>	<i>D. perniciosus</i>
<i>F. redolens</i>	<i>Fusarium oxysporum</i> var. <i>redolens</i>	<i>Physalospora obtusa</i>	<i>Botryosphaeria obtusa</i>
<i>F. roseum</i> var. <i>culmorum</i>	<i>F. culmorum</i>	<i>Phytophthora parasitica</i>	<i>Phytophthora nicotianae</i> var. <i>parasitica</i>
<i>F. roseum</i> var. <i>graminearum</i>	<i>Gibberella zeae</i>	<i>Plasmopara helianthi</i>	<i>Plasmopara halstedii</i>
<i>F. sambucinum</i>	<i>G. pulicaris</i>	<i>Pleospora bjoerlingii</i>	<i>Pleospora betae</i>
<i>F. stilboides</i>	<i>G. stilboides</i>		

For references to	See under	For references to	See under
<i>Polyporus hispidus</i>	<i>Inonotus hispidus</i>	<i>S. reilianum</i>	<i>S. reiliana</i>
<i>Poria weirii</i>	<i>Inonotus weirii</i>	<i>Sphaeropsis malorum</i>	<i>Botryosphaeria obtusa</i>
<i>Pseudomonas cerasi</i>	<i>Pseudomonas syringae</i>	<i>Sphaerotheca humuli</i>	<i>Sphaerotheca macularis</i>
<i>P. holci</i>	<i>P. syringae</i>	<i>Stemphylium botryosum</i>	<i>Pleospora herbarum</i>
<i>P. vignae</i>	<i>P. syringae</i>	<i>S. radicinum</i>	<i>Alternaria radicina</i>
<i>Puccinia glumarum</i>	<i>Puccinia striiformis</i>	<i>Tilletia tritici</i>	<i>Tilletia caries</i>
<i>P. penniseti</i>	<i>P. substriata</i> var. <i>penicillariae</i>	<i>Trametes versicolor</i>	<i>Coriolus versicolor</i>
<i>P. tritici</i>	<i>P. recondita</i>	<i>Trichoconis padwickii</i>	<i>Alternaria padwickii</i>
<i>Pullularia pullulans</i>	<i>Aureobasidium pullulans</i>	<i>Trichoderma lignorum</i>	<i>Trichoderma viride</i>
<i>Ramularia areola</i>	<i>Ramularia gossypii</i>	<i>Uromyces fabae</i>	<i>Uromyces viciae-fabae</i>
<i>Rhizoctonia bataticola</i>	<i>Macrophomina phaseolina</i>	<i>U. phaseoli</i>	<i>U. appendiculatus</i>
<i>Rhizopus nigricans</i>	<i>Rhizopus stolonifer</i>	<i>Ustilago kollerii</i>	<i>Ustilago hordei</i>
<i>Scleroderris lagerbergii</i>	<i>Gremmeniella abietina</i>	<i>U. levis</i>	<i>U. hordei</i>
<i>Sclerospora macrospora</i>	<i>Sclerophthora macrospora</i>	<i>U. tritici</i>	<i>U. nuda</i>
<i>S. rayssiae</i>	<i>S. rayssiae</i>	<i>U. zeae</i>	<i>U. maydis</i>
<i>Sclerotium bataticola</i>	<i>Macrophomina phaseolina</i>	<i>Ustilina zonata</i>	<i>Ustilina deusta</i>
<i>S. oryzae</i>	<i>Magnaporthe salvinii</i>	<i>Verticillium malthousei</i>	<i>Verticillium fungicola</i>
<i>Septoria apii-graveolentis</i>	<i>Septoria apiicola</i>	<i>Whetzelinia sclerotiorum</i>	<i>Sclerotinia sclerotiorum</i>
<i>S. avenae</i>	<i>Leptosphaeria avenaria</i>	<i>Xanthomonas oryzicola</i>	<i>Xanthomonas translucens</i> f.sp. <i>oryzicola</i>
<i>S. nodorum</i>	<i>L. nodorum</i>	<i>X. translucens</i> f.sp. <i>oryzae</i>	<i>X. translucens</i> f.sp. <i>oryzicola</i>
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- Advances in microbial physiology 17 1037
- Advances in virus research 22 1087
- Agricultural plant pathology. Diseases of plants (Es) 2099
- Analytical methods for pesticides and plant growth regulators, Vol. X 3648
- Annual review of microbiology, Vol. 32 4648
- Annual review of phytopathology, Vol. 16 2097
- Ascomycetes in Pakistan 4704

Books contd.

- Atlas of airborne pollen grains and common fungus spores of Canada 2524
- Atlas of insect and plant viruses 1653
- Atlas of insect and plant viruses, including mycoplasma viruses and viroids 3164
- Barley, Agric. Handb. USDA 4789
- Basidiomycetes 2, revised ed. (De) 4266
- Basidiomycetes that decay aspen in North America 4521
- Biochemical aspects of plant and animal coevolution 4639
- Biochemistry of viruses 3165
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- Breeding of technical and fodder crops (Ru) 3741
- British Ascomycetes 1638
- Chemicals for crop protection and pest control 57
- Chemistry of plant protection and pest control agents, Vol. 4 (De) 5686
- Citrus industry, Vol. IV. Crop protection 5356
- Comprehensive virology. Vol II 5267
- Comprehensive virology. Vol. 12 4717
- Corticaceae of North Europe, Vol. 5 5250
- Cowpeas : abstracts of world literature, Vol 1 3028
- CRC handbook of microbiology, Vol. II 5189
- Developments in industrial microbiology, Vol. 19 2092
- Dictionaries of biology. Phytopathology and plant protection (De) 4653
- Dictionary of microbial taxonomy 3637
- Dictionary of phytopathology and mycology (Pi) 5627
- Diseases and pests of orchids (NI) 1807
- Diseases and pests of ornamental plants (Cs) 3866
- Diseases and pests of ornamental plants ed. 5 1797
- Diseases of forest trees in the tropics 6091
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 American Phytopath. Soc., plant production under stress 1524
 American Phytopath. Soc., Caribbean Div., Florida 514
 Biological aspects of Saudi Arabia, Riyadh 5176
 Brazilian Phytopath. Soc., Itabuna 4216
 British Insecticide and Fungicide (9th) 44

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- Canadian Phytopath. Soc. 2517
Capsicum, EUCARPIA, France 3582
 Cassava bacterial blight in Africa, Ibadan, Nigeria 4604
 Cassava bacterial blight, Nigeria 2064
 Cassava Protection Workshop, CIAT, Cali, Colombia 1477
 Downy mildew diseases of maize, Bangkok, Thailand 2765
 East African Cereals Res., 5th, Malawi 142
 Eastern cottonwood and related species, Greenville, Mississippi 5034
 Egyptian Phytopath. Soc., Cairo 4183
 Epidemiology and crop loss assessment, Canterbury, New Zealand 3057
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 French Phytopath. Soc., 12th 1004
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 Genetic diversity in plants, Lahore, Pakistan 1010
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